Original/Duplicate/Triplicate

SBR No. 87/2238
DATED 19/01/2023

CONTRACT CERTIFICATE

EE/ELE/Y/BR No.....

No.4th RA Bill (For Other Works) Date.....2022

Dt.....

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-003-22-000022**

Schedule Docket No. Head of Account : **P 0300** M&R to Street lights - Replacement of Burnt bulbs etc

D.R.No. : **Period: 01-11-2022 to 30-11-2022 (for 1 months)**

Name of Work:- *Annual maintenance and repairs of Street Lights in Ward No 3 & 4 Park Package Y-12 of Yelahanka Zone*

Name of Contractor and Full Address:**M/S. United Engineers**

Reference to Agreement No:EE/Ele/YZ/AG/000012 /2022-23 Date:07/04/2022

Reference to Work order No:EE/Ele/YZ/WO/000012 /2022-23 Date:07/04/2022

Certified that the measurements were taken by me on 2/12/22 and recorded of Pages 260329 to 260329 of measurement Book No. 2604/22-23 and that the work is satisfactorily executed.

For UNITED ENGINEERS

Proprietor

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 2/12/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Up.DT	586398:23
2) Deduct amount to be held in reserve being .....percent Rs.....	P.Bill	511218:97
3) " Balance	AthRABill	75179:00
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	It/1.	752:00
	LLC 1.1.	752:00
	CBFO 1%	75:00
b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Cnst 1%	752:00
	Sust 1%	752:00
	Fine	2400:00
5) Balance being unpaid value of work done held in reserve.	Scrap 2%	1504:00
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	Deduction	6987:00
7) Net amount due to or from Contractor unadjustments items.		68192:00
8) Advance to Contractor for materials brought to site (as detailed) within.	Bychyee	
9) Value of Government materials supplied.		
Total amount adjusted		

For UNITED ENGINEERS

Proprietor

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

For UNITED ENGINEERS

Witness

1.

2.

Dated Signature of Contractor

Stamp

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

ಶೀರ್ಷಿಕೆ P0300 M and R to Street.

ರೂ: 75179:00 ಆಡಿಟ್ ಮುಂದಿ ಸ್ವೀಕರಿಸಿದ

ರೂ: 68192:00 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ

ರೂ: 6987:00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

Executive Engineer

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾ.ಪೂ.ಇ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl. No.	Description of item	Unit
	Name of Work :-Annual maintenance and repairs of Street Lights in Ward No 3 & 4 Park Package Y-12 of Yelahanka Zone	
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below.i) Poles with 36/40 W fluorescent tube light street lighting system.	Each
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting system.	Each
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV light street lighting system.	Each
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for with 400W HPSV street light/High Mast lighting systems.	Each
5	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 70 watt HPMH park lighting systems.	Each
6	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250 watt HPMH park lighting systems	Each
7	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPMH street light/High Mast lighting systems.	Each
8	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED streetlight lighting system	Each
9	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED streetlight lighting system	Each

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
		1	Months		Upto Date paid so for 7 Months 24 Days		
1x6 Months 24 Days	0	0	50.00	0.00	1x7 Months 24 Days	0.00	
710x6 Months 24 Days	319855.00	710	66.25	47037.50	710x7 Months 24 Days	366892.50	
5x6 Months 24 Days	2833.22	5	83.33	416.65	5x7 Months 24 Days	3249.87	
38x6 Months 24 Days	21532.47	38	83.33	3166.54	38x7 Months 24 Days	24699.01	
50x6 Months 24 Days	19832.20	50	58.33	2916.50	50x7 Months 24 Days	22748.70	
47x6 Months 24 Days	29294.54	47	91.66	4308.02	47x7 Months 24 Days	33602.56	
35x6 Months 24 Days	22807.54	35	95.83	3354.05	35x7 Months 24 Days	26161.59	
179x6 Months 24 Days	91290.00	179	75.00	13425.00	179x7 Months 24 Days	104715.00	
6x6 Months 24 Days	3774.00	6	92.50	555.00	6x7 Months 24 Days	4329.00	

10	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED streetlight lighting system	
11	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system	
12	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.	
13	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	
14	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	
15	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	
16	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG	
17	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	
18	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	
19	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps SP	
20	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Post Top Lantern with 35 watts	
	TOTAL Rs	
	Add GST 12 % on item no 12 to 20	
	TOTAL Rs	
	Fine imposed for non burning of street lights For the period of 1/11/2022 to 30/11/2022	
	As per street light agreement clause 2% will be deducted in monthly maintenance bill against the released scrap material	
	GRAND TOTAL	

Certificate

The above said monthly maintenance work has been carried out satisfactorily

0	0.00	0	104.16	0.00	0	0.00	
0	0.00	0	125.00	0.00	0	0.00	
0	0.00	0	5500.00	0.00	0	0.00	
0	0.00	0	125.00	0.00	0	0.00	
0	0.00	0	76.00	0.00	0	0.00	
0.00	0.00	0	10.00	0.00	0	0.00	
0.00	0.00	0	0.30	0.00	0	0.00	
0	0.00	0	4000.00	0.00	0	0.00	
0	0.00	0	2400.00	0.00	0	0.00	
0	0.00	0	700.00	0.00	0	0.00	
0	0.00	0	6200.00	0.00	0	0.00	
	511218.97			**75179.26**		**586398.23**	
	0.00			0.00		0.00	
	511218.97			**75179.26**		**586398.23**	
	9200.00			2400.00		11600.00	
	10224.38			1503.59		11727.96	
	491794.59			**71275.67**		**563070.26**	